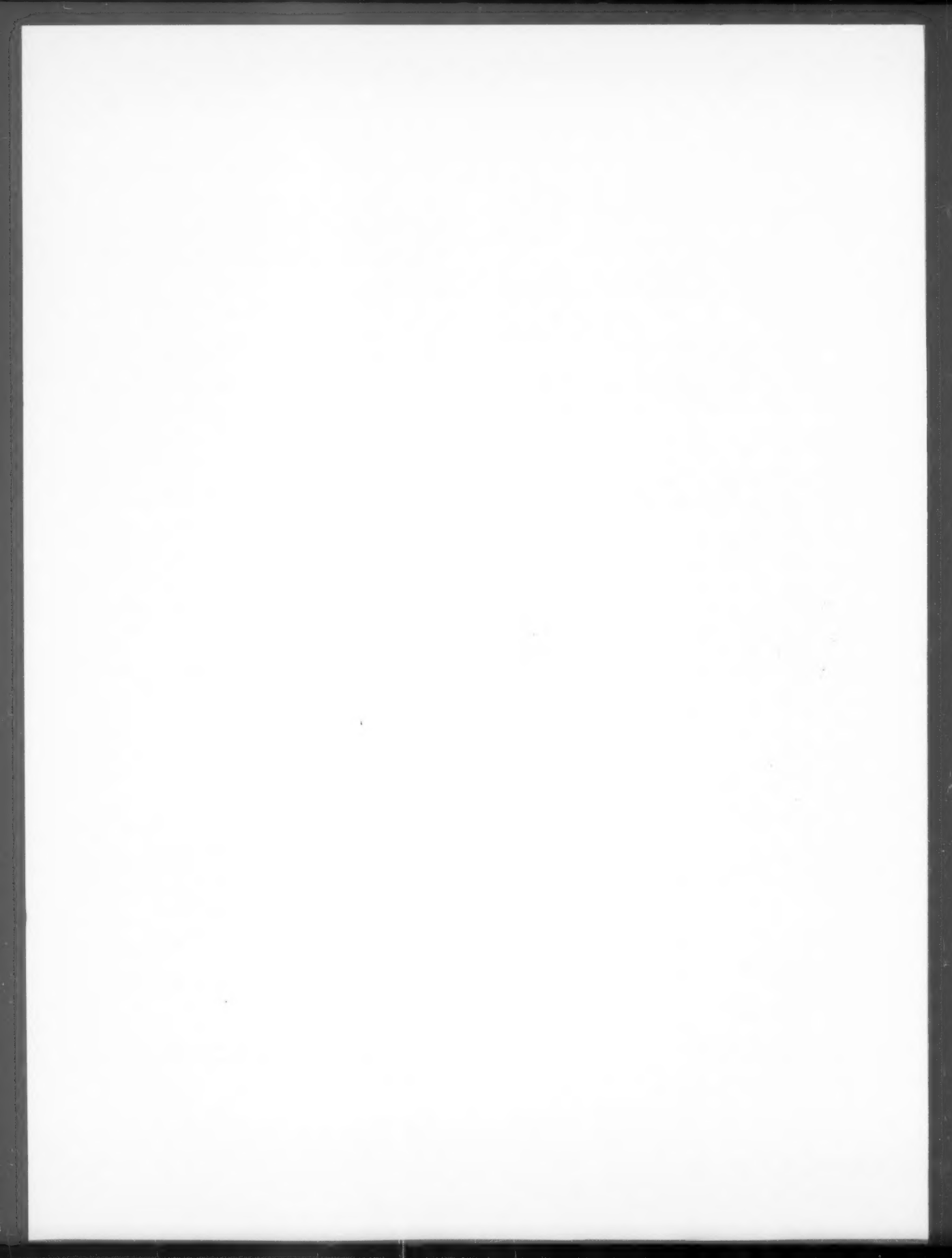


# Index of Authors and Titles

- AKHURST, R. J., LEHNERT, S. A., FAISSNER, A. and DUFFIE, E.  
TGF beta in murine morphogenetic processes: the early embryo and cardiogenesis 645
- ALBERSHEIM, P. See MOHNEN, D.
- ALLEN, F., TICKLE, C. and WARNER, A. The role of gap junctions in patterning of the chick limb bud 623
- ALLES, A. J. and SULIK, K. K. Retinoic acid-induced spina bifida: evidence for a pathogenetic mechanism 73
- ANTICA, M. See SPAVENTI, R.
- AVILA, J. See CASAL, J.
- AWGULEWITSCH, A. and JACOBS, D. Differential expression of Hox 3.1 protein in subregions of the embryonic and adult spinal cord 411
- AYER-LELIEVRE, C. See HALLBÖÖK, F.
- BALLING, R. See PUSCHEL, A. W.
- BARBET, J. P. See SOUSSI-YANICOSTAS, N.
- BARTON, P. See SOUSSI-YANICOSTAS, N.
- BARTON, S. C. See FUNDELE, R. H.
- BASTMEYER, M., SCHLOSSHAUER, B. and STUERMER, C. A. O. The spatiotemporal distribution of N-CAM in the retinotectal pathway of adult gold fish detected by the monoclonal antibody D3 299
- BATE, M. See BROADIE, K. S.
- BATE, M. See SHEPHERD, D.
- BELLAIRS, R. See LOVELESS, W.
- BERRY, S. J. See KASTERN, W. H.
- BIENZ, M. See DELORENZI, M.
- BLECHER, S. R. See KAPALANGA, J.
- BONCINELLI, E. See OUDEJANS, C. B. M.
- BROADIE, K. S., SYLWESTER, A. W., BATE, M. and TUBLITZ, N. J.  
Immunological, biochemical and physiological analyses of carioacceleratory peptide 2 (CAP<sub>2</sub>) activity in the embryo of the tobacco hawkmoth *Manduca sexta* 59
- BRODERS, F. See LEVI, G.
- BRONNER-FRASER, M. See SERBEDZJA, G. N.
- BUSSE, H. G. See SUNDIN, O. H.
- BUTLER-BROWNE, G. S. See SOUSSI-YANICOSTAS, N.
- CASAL, J., GONZALEZ, F., WANDOSELL, F., AVILA, J. and RIPOLL, P. Abnormal meiotic spindles cause a cascade of defects during spermatogenesis in *asp* males of *Drosophila* 251
- CHAMBON, P. See RUBERTE, E.
- CHAMPION, J. E. See McMAHON, A. P.
- CHARLEBOIS, T. S., SPENCER, D. H., TARKINGTON, S. K., HENRY, J. J. and GRAINGER, R. M. Isolation of a chick cytokeratin cDNA clone indicative of regional specialization in early embryonic ectoderm 33
- CLARK, M. E. See PETITTE, J. N.
- CLARK, P., CONNOLLY, P., CURTIS, A. S. G., DOW, J. A. T. and WILKINSON, C. D. W. Topographical control of cell behaviour: II. Multiple grooved substrata 635
- COLELLO, R. J. and GUILLERY, R. W. The early development of retinal ganglion cells with uncrossed axons in the mouse: retinal position and axonal course 515
- CONNOLLY, P. See CLARK, P.
- COOKE, J. See GREEN, J. B. A.
- CORNISH, J. A. See SCHULZ, R. A.
- COULY, G. and LE DOUARIN, N. M. Head morphogenesis in embryonic avian chimeras: evidence for a segmental pattern in the ectoderm corresponding to the neuromeres 543
- CURTIS, A. S. G. See CLARK, P.
- DARVILL, A. See MOHNEN, D.
- DAVIDSON, E. H. How embryos work: a comparative view of diverse modes of cell fate specification 365
- DELORENZI, M. and BIENZ, M. Expression of Abdominal-B homeoproteins in *Drosophila* embryos 323
- DESIMONE, D. See SMITH, J. C.
- DOLLE, P. See RUBERTE, E.
- DOUBRAVA, N. See MOHNEN, D.
- DOW, J. A. T. See CLARK, P.
- DUBAND, J.-L. and THIERY, J. P. Spatial and temporal distribution of vinculin and talin in migrating avian neural crest cells and their derivatives 421
- DUFFIE, E. See AKHURST, R. J.
- DUNON, D. See LEVI, G.
- EASTER, S. S. See WILSON, S. W.
- EBENDAL, T. See HALLBÖÖK, F.
- EBERHARD, S. See MOHNEN, D.
- EDELMAN, G. M. See LEVI, G.
- EICHELE, G. See SUNDIN, O. H.
- ETCHES, R. J. See PETITTE, J. N.
- FAISSNER, A. See AKHURST, R. J.
- FEHLAU, M. See FUNDELE, R. H.
- FEIZI, T. See LOVELESS, W.
- FELSENFIELD, A. L., WALKER, C., WESTERFIELD, M., KIMMEL, C. and STREISINGER, G. Mutations affecting skeletal muscle myofibril structure in the zebrafish 443
- FFRENCH-CONSTANT, C. See ZUSMAN, S.
- FLEMING, S. See GARROD, D. R.
- FRASER, S. E. See SERBEDZJA, G. N.
- FUNDELE, R. H., NORRIS, M. L., BARTON, S. C., FEHLAU, M., HOWLETT, S. K., MILLS, W. E. and SURANI, M. A. Temporal and spatial selection against parthenogenetic cells during development of fetal chimeras 203
- GALEWSKY, S. See SCHULZ, R. A.
- GARROD, D. R. and FLEMING, S. Early expression of desmosomal components during kidney tubule morphogenesis in human and murine embryos 313
- GERHAUSER, D. See MODLINSKI, J. A.
- GODIN, I., WYLIE, C. C. and HEASMAN, J. Genital ridges exert long-range effects on mouse primordial germ cell numbers and direction of migration in culture 357
- GOLDHAMER, D. J. See ONDA, H.
- GOLLIN, D. J. See MOHNEN, D.
- GONZALEZ, F. See CASAL, J.
- GRAF, J.-D. See ROBERT, J.
- GRAINGER, R. M. See CHARLEBOIS, T. S.
- GREEN, J. B. A., HOWES, G., SYMES, K., COOKE, J. and SMITH, J. C. The biological effects of XTC-MIF: quantitative comparison with *Xenopus* bFGF 173
- GRIFFITH, C. M. and WILEY, M. J. Sialoconjugates and development of the tail bud 479
- GRUBER, T. A. See MOHNEN, D.
- GRUSS, P. See PUSCHEL, A. W.
- GUDAS, L. J. See SUNDIN, O. H.
- GUILLERY, R. W. See COLELLO, R. J.
- HALLBÖÖK, F., AYER-LELIEVRE, C., EBENDAL, T. and PERSSON, H. Expression of nerve growth factor receptor mRNA during early development of the chicken embryo: emphasis on cranial ganglia 693

- HALLONET, M. E. R., TEILLET, M.-A. and LE DOUARIN, N. M. A new approach to the development of the cerebellum provided by the quail-chick marker system 19
- HARBERS, K. See SCHWARZ, M.
- HARVEY, R. P. The *Xenopus MyoD* gene: an unlocalised maternal mRNA predates lineage-restricted expression in early embryo 669
- HEASMAN, J. See GODIN, I.
- HENRY, J. J. See CHARLEBOIS, T. S.
- HILL, D. P. and STROME, S. Brief cytochalasin-induced disruption of microfilaments during a critical interval in 1-cell *C. elegans* embryos alters the partitioning of developmental instructions to the 2-cell embryo 159
- HOMMA, S. See YAGINUMA, H.
- HOWES, G. See GREEN, J. B. A.
- HOWLETT, S. K. See FUNDELE, R. H.
- HYNES, R. O. See SMITH, J. C.
- HYNES, R. O. See ZUSMAN, S.
- ILLMENSEE, K. See MODLINSKI, J. A.
- ISHIHARA, R. See YAGINUMA, H.
- JACOBS, D. See AWGULEWITSCH, A.
- JACOBSON, A. G. See SATER, A. K.
- JIAKLI, H. See ROBERT, J.
- KAPALANGA, J. and BLECHER, S. R. Effect of the X-linked gene *Tabby* (*Ta*) on eyelid opening and incisor eruption in neonatal mice is opposite to that of epidermal growth factor 349
- KARCH, F. See ROBERT, J.
- KASTERN, W. H., WATSON, C. A. and BERRY, S. J. Maternal messenger RNA distribution in silkworm eggs I. Clone Ec4B is associated with the cortical cytoskeleton 497
- KELLY, F. J. See RICKETT, G. M. W.
- KIMMEL, C. B. See WARGA, R. M.
- KIMMEL, C. B., WARGA, R. M. and SCHILLING, T. F. Origin and organization of the zebrafish fate map 581
- KIMMEL, C. See FELSENFELD, A. L.
- KLEMM, U. See KRESS, H.
- KOBEL, H. R. See ROBERT, J.
- KRATOCHWIL, K. See SCHWARZ, M.
- KRESS, H., LUCKA, L., SWIDA, U., THUROFF, E. and KLEMM, U. Genes from two intermolt puffs in *Drosophila virilis* polytene chromosomes are differentially transcribed during larval development 261
- KRESS, H. See SWIDA, U.
- KRUST, A. See RUBERTE, E.
- LAURENT-WINTER, C. See SOUSSI-YANICOSTAS, N.
- LE DOUARIN, N. M. See COULY, G.
- LE DOUARIN, N. M. See HALLONET, M. E. R.
- LEHNERT, S. A. See AKHURST, R. J.
- LEVI, G., BRODERS, F., DUNON, D., EDELMAN, G. M. and THIERY, J. P. Thyroxine-dependent modulations of the expression of the neural cell adhesion molecule N-CAM during *Xenopus laevis* metamorphosis 681
- LILOI, B. See MODLINSKI, J. A.
- LIU, G. See PETITTE, J. N.
- LIVINGSTON, B. T. and WILT, F. H. Range and stability of cell fate determination in isolated sea urchin blastomeres 403
- LOVELESS, W., BELLAIRES, R., THORPE, S. J., PAGE, M. and FEIZI, T. Developmental patterning of the carbohydrate antigen FC10.2 during early embryogenesis in the chick 97
- LUCKA, L. See KRESS, H.
- LUCKA, L. See SWIDA, U.
- MARFA, V. See MOHNEN, D.
- McMAHON, A. P., CHAMPION, J. E., McMAHON, J. A. and SUKHATME, V. P. Developmental expression of the putative transcription *Egr-1* suggests that *Egr-1* and *c-fos* are coregulated in some tissues 281
- McMAHON, J. A. See McMAHON, A. P.
- MEIJER, C. J. L. M. See OUDEJANS, C. B. M.
- MELTON, D. A. See YISRAELI, J. K.
- MIKSCH, J. L. See SCHULZ, R. A.
- MILLS, W. E. See FUNDELE, R. H.
- MODLINSKI, J. A., GERHAUSER, D., LILOI, B., WINKING, H. and ILLMENSEE, K. Nuclear transfer from teratocarcinoma cells into mouse oocytes and eggs 337
- MOHNEN, D., EBERHARD, S., MARFÀ, V., DOUBRAVA, N., TOUBART, P., GOLLIN, D. J., GRUBER, T. A., NURI, W., ALBERSHEIM, P. and DARVILL, A. The control of root, vegetative shoot and flower morphogenesis in tobacco thin cell-layer explants (TCLs) 191
- MORRIS-KAY, G. See RUBERTE, E.
- NISHIDA, H. Determinative mechanisms in secondary muscle lineages of ascidian embryos: development of muscle-specific features in isolated muscle progenitor cells 559
- NORRIS, M. L. See FUNDELE, R. H.
- NURI, W. See MOHNEN, D.
- ONDA, H., GOLDHAMER, D. J. and TASSAVA, R. A. An extracellular matrix molecule of newt and axolotl regenerating limb blastemas and embryonic limb buds: immunological relationship of MT1 antigen with tenascin 657
- OPPENHEIM, R. W. See YAGINUMA, H.
- OUDEJANS, C. B. M., PANNESE, M., SIMEONE, A., MEIJER, C. J. L. M. and BONCINELLI, E. The three most downstream genes of the Hox-3 cluster are expressed in human extraembryonic tissues including trophoblast of androgenetic origin 471
- PAGE, M. See LOVELESS, W.
- PANNESE, M. See OUDEJANS, C. B. M.
- PARRET, T. See WILSON, S. W.
- PATEL-KING, R. S. See ZUSMAN, S.
- PATEL, R. See WHITAKER, M.
- PAVELIĆ, K. See SPAVENTI, R.
- PERSSON, H. See HALLBÖÖK, F.
- PETITTE, J. N., CLARK, M. E., LIU, G., VERRINDER GIBBINS, A. M. and ETCHES, R. J. Production of somatic and germline chimaeras in the chicken by transfer of early blastodermal cells 185
- PUSCHEL, A. W., BALLING, R. and GRUSS, P. Position-specific activity of the Hox1.1 promoter in transgenic mice 435
- RICKETT, G. M. W. and KELLY, F. J. Developmental expression of antioxidant enzymes in guinea pig lung and liver 331
- RIPOLL, P. See CASAL, J.
- ROBERT, J., WOLFF, J., JIAKLI, H., GRAF, J.-D., KARCH, F. and KOBEL, H. R. Developmental expression of the creatine kinase isozyme system of *Xenopus*: maternally derived CK-IV isoform persists far beyond the degradation of its maternal mRNA and into the zygotic expression period 507
- ROGERS, M. B. See SUNDIN, O. H.
- ROSS, L. S. See WILSON, S. W.
- RUBERTE, E., DOLLÉ, P., KRUST, A., ZELEN, A., MORRIS-KAY, G. and CHAMBON, P. Specific spatial and temporal distribution of retinoic acid receptor gamma transcripts during mouse embryogenesis 213

- RUIZ i ALTABA, A. Neural expression of the *Xenopus* homeobox gene *Xhox3*: evidence for a patterning neural signal that spreads through the ectoderm 595
- SATER, A. K. and JACOBSON, A. G. The role of the dorsal lip in the induction of heart mesoderm in *Xenopus laevis* 461
- SCHILLING, T. F. See KIMMEL, C. B.
- SCHLOSSHAUER, B. See BASTMEYER, M.
- SCHNABEL, H. See SCHNABEL, R.
- SCHNABEL, R. and SCHNABEL, H. Early determination in the *C. elegans* embryo: gene, *cib-1*, required to specify a set of stem-cell-like blastomeres 107
- SCHULZ, R. A., MIKSCH, J. L., XIE, X., CORNISH, J. A. and GALEWSKY, S. Expression of the *Drosophila gonadal* gene: alternative promoters control the germ-line expression of monocistronic and bicistronic gene transcripts 613
- SCHWARZ, M., HARBERS, K. and KRATOCHWIL, K. Transcription of a mutant collagen I gene is a cell type and stage-specific marker for odontoblast and osteoblast differentiation 717
- SERBEDZUA, G. N., FRASER, S. E. and BRONNER-FRASER, M. Pathways of trunk neural crest cell migration in the mouse embryo as revealed by vital dye labelling 605
- SHEPHERD, D. and BATE, C. M. Spatial and temporal patterns of neurogenesis in the embryo of the locust (*Schistocerca gregaria*) 83
- SHIGA, T. See YAGINUMA, H.
- SIMEONE, A. See OUDEJANS, C. B. M.
- SMITH, J. C. See GREEN, J. B. A.
- SMITH, J. C., SYMES, K., HYNES, R. O. and DESIMONE, D. Mesoderm induction and the control of gastrulation in *Xenopus laevis*: the roles of fibronectin and integrins 229
- SOKOL, S. See YISRAELI, J. K.
- SOUSSE-YANICOSTAS, N., BARBET, J. P., LAURENT-WINTER, C., BARTON, P. and BUTLER-BROWN, G. S. Transition of myosin isozymes during development of human masseter muscle. Persistence of developmental isoforms during postnatal stage 239
- SPAVENTI, R., ANTICA, M. and PAVELIĆ, K. Insulin and insulin-like growth factor I (IGF I) in early mouse embryogenesis 491
- SPENCER, D. H. See CHARLEBOIS, T. S.
- STREISINGER, G. See FELSENFELD, A. L.
- STROME, S. See HILL, D. P.
- STUERMER, C. A. O. See BASTMEYER, M.
- SUKHATME, V. P. See McMAHON, A. P.
- SULIK, K. K. See ALLES, A. J.
- SUNDIN, O. H., BUSSE, H. G., ROGERS, M. B., GUDAS, L. J. and EICHELE, G. Region-specific expression in early chick and mouse embryos of *Glox-lab* and *Hox 1.6*, vertebrate homeobox-containing genes related to *Drosophila labial* 47
- SURANI, M. A. See FUNDELE, R. H.
- SWIDA, U., LUCKA, L. and KRESS, H. Glue protein genes in *Drosophila virilis*: their organization, developmental control of transcription and specific mRNA degradation 269
- SWIDA, U. See KRESS, H.
- SYLWESTER, A. W. See BROADIE, K. S.
- SYMES, K. See GREEN, J. B. A.
- SYMES, K. See SMITH, J. C.
- TAKEUCHI, S. See TANAKA, S.
- TAKEUCHI, T. See TANAKA, S.
- TANAKA, S., YAMAMOTO, H., TAKEUCHI, S. and TAKEUCHI, T. Melanization in albino mice transformed by introducing clones mouse *tyrosinase* gene 223
- TARKINGTON, S. K. See CHARLEBOIS, T. S.
- TASSAVA, R. A. See ONDA, H.
- TAYLOR, J. S. H. The directed growth of retinal axons towards surgically transposed tecta in *Xenopus*; and examination of homing behaviour by retinal ganglion cell axons 147
- TEILLET, M.-A. See HALLONET, M. E. R.
- THIERY, J. P. See DUBAND, J.-L.
- THIERY, J. P. See LEVI, G.
- THORPE, S. J. See LOVELESS, W.
- THUROFF, E. See KRESS, H.
- TICKLE, C. See ALLEN, F.
- TOUBART, P. See MOHNER, D.
- TUBLITZ, N. J. See BROADIE, K. S.
- VERRINDER GIBBINS, A. M. See PETITTE, J. N.
- WALKER, C. See FELSENFELD, A. L.
- WANDOSELL, F. See CASAL, J.
- WARGA, R. M. and KIMMEL, C. B. Cell movements during epiboly and gastrulation in zebrafish 569
- WARGA, R. M. See KIMMEL, C. B.
- WARNER, A. See ALLEN, F.
- WASSERMAN, P. M. Profile of a mammalian sperm receptor 1
- WATSON, C. A. See KASTERN, W. H.
- WESTERFIELD, M. See FELSENFELD, A. L.
- WHITAKER, M. and PATEL, R. Calcium and cell cycle control 525
- WILEY, M. J. See GRIFFITH, C. M.
- WILKINSON, C. D. W. See CLARK, P.
- WILSON, S. W., ROSS, L. S., PARRETT, T. and EASTER, S. S. The development of a simple scaffold of axon tracts in the brain of the embryonic zebrafish, *Brachydanio rerio* 121
- WILT, F. H. See LIVINGSTON, B. T.
- WINKING, H. See MODLINSKI, J. A.
- WOLFF, J. See ROBERT, J.
- WYLIE, C. C. See GODIN, I.
- XIE, X. See SCHULZ, R. A.
- YAGINUMA, H., SHIGA, T., HOMMA, S., ISHIIHARA, R. and OPPENHEIM, R. W. Identification of early developing axon projections from spinal interneurons in the chick embryo with a neuron-specific  $\beta$ -tubulin antibody: evidence for a new 'pioneer' pathway in the spinal cord 705
- YAMAMOTO, H. See TANAKA, S.
- YISRAELI, J. K., SOKOL, S. and MELTON, D. A. A two-step model for the localization of maternal mRNA in *Xenopus* oocytes: Involvement of microtubules and microfilaments in the translocation and anchoring of Vg1 mRNA 289
- ZELENT, A. See RUBERTE, E.
- ZUSMAN, S., PATEL-KING, R. S., FFRENCH-CONSTANT, C. and HYNES, R. O. Requirements for integrins during *Drosophila* development 391



# Subject Index

- Abdominal-b**  
expression  
in *Drosophila*: DELORENZI AND BIENZ 323
- Abnormal spindle**  
effect of *asp* on *Drosophila* spermatogenesis: CASAL AND OTHERS 251
- Adherens junctions**  
distribution of vinculin and talin: DUBAND AND THIERY 421
- Adhesion**  
cell-cell  
desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313  
thyroxine-dependent N-CAM expression in *Xenopus*: LEVI AND OTHERS 681  
gamete  
sperm receptor in mammals: WASSARMAN 1
- $\alpha$ -1(I)collagen**  
gene  
transcription in mouse: SCHWARZ AND OTHERS 717
- Alternative promoter**  
expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613
- Amino acid**  
sequences  
cytokeratin gene expression in chick: CHARLEBOIS AND OTHERS 33
- Amphibia**  
embryo  
gastrulation and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229  
XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173
- Anterior-posterior pattern**  
neural expression of *Xenopus* Xhox3: RUIZ i ALTABA 595
- Antigen**  
carbohydrate FC10.2 in chick embryogenesis: LOVELESS AND OTHERS 97
- Antioxidant enzyme**  
in guinea pig lung and liver: RICKETT AND KELLY 331
- Ascidia**  
embryo  
secondary muscle lineages: NISHIDA 559
- Ascitic carcinoma**  
potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337
- asp***  
effect on *Drosophila* spermatogenesis: CASAL AND OTHERS 251
- Autonomous specification**  
diverse modes of cell fate specification: DAVIDSON 365
- Autonomy**  
developmental  
secondary muscle lineages in ascidian embryo: NISHIDA 559
- Auxin**  
control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191
- Avian**  
embryo  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705  
distribution of vinculin and talin: DUBAND AND THIERY 421
- Axis**  
determination  
cell fate specification: DAVIDSON 365
- Axolotl**  
limb regeneration  
extracellular matrix molecule: ONDA AND OTHERS 657
- Axon**  
guidance  
retinal guidance to transposed tecta in *Xenopus*: TAYLOR 147  
optic  
development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515
- Axonal growth**  
pattern  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705
- Axonal guidance**  
in brain of embryonic zebrafish: WILSON AND OTHERS 121
- Axonal pathway**  
development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515
- bFGF**  
XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173
- BHK cell**  
topographical control of cell behaviour: CLARK AND OTHERS 635
- Bicistronic RNA**  
expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613
- Blastoderm**  
chick  
somatic and germline chimeras: PETITTE AND OTHERS 185
- Blastomere**  
sea urchin  
cell fate determination: LIVINGSTON AND WILT 403  
in isolated sea urchin blastomeres: LIVINGSTON AND WILT 403
- Blastula**  
zebrafish  
cell movements during epiboly: WARGA AND KIMMEL 569  
fate map: KIMMEL AND OTHERS 581
- Bone**  
mouse  
expression of *Egr-1* and *c-fos*: McMAHON AND OTHERS 281
- Brachydanio rerio**  
cell fate specification: DAVIDSON 365  
embryo  
axonal guidance in brain: WILSON AND OTHERS 121  
muscle  
myofibril structure: FELSENFELD AND OTHERS 443
- Brain**  
development in chick: HALLONET AND OTHERS 19
- Caenorhabditis elegans**  
cell fate specification: DAVIDSON 365  
embryo  
early determination: SCHNABEL AND SCHNABEL 107  
partitioning of developmental instructions: HILL AND STROME 159

**Calcium**

and cell cycle control: WHITAKER AND PATEL 525

**Carbohydrate****antigen**

FC10.2 in chick embryogenesis: LOVELESS AND OTHERS 97

**recognition**

sperm receptor in mammals: WASSARMAN 1

**Cardioacceleratory peptide 2**

peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Cardiogenesis**

TGF beta in murine morphogenesis: AKHURST AND OTHERS 645

**Cartilage****mouse**expression of *Egr-1* and *c-fos*: McMAHON AND OTHERS 281RAR- $\alpha$  transcripts in mouse embryo: RUBERTE AND OTHERS 213**cDNA clone**

cytokeratin gene expression in chick: CHARLEBOIS AND OTHERS 33

**Cell****adhesion**thyroxine-dependent N-CAM expression in *Xenopus*: LEVI AND OTHERS 681**behaviour**

topographical control: CLARK AND OTHERS 635

**-cell adhesion**

desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313

**-cell interaction**

cell fate specification: DAVIDSON 365

**cycle**

control by calcium: WHITAKER AND PATEL 525

**death**

spina bifida induction by retinoic acid: ALLES AND SULIK 73

**fate**diverse modes of specification: DAVIDSON 365  
in isolated sea urchin blastomeres: LIVINGSTON AND WILT 403**interaction**

secondary muscle lineages in ascidian embryo: NISHIDA 559

**lineage**

cell movements during epiboly in zebrafish: WARGA AND KIMMEL 569

fate map in zebrafish: KIMMEL AND OTHERS 581

**migration**

cerebellum development in chick: HALLONET AND OTHERS 19

**proliferation**

fate of cells in fetal chimeras: FUNDELE AND OTHERS 203

**selection**

fate of cells in fetal chimeras: FUNDELE AND OTHERS 203

**Cerebellum**

development in chick: HALLONET AND OTHERS 19

**c-fos**

expression in mouse fetal development: McMAHON AND OTHERS 281

**Chiasm****optic**

development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515

**Chick****embryo**

carbohydrate antigen FC10.2 patterning: LOVELESS AND OTHERS 97

cytokeratin gene expression: CHARLEBOIS AND OTHERS 33

development of spinal interneurons: YAGINUMA AND OTHERS 705

expression of NGF-R mRNA: HALLBÖÖK AND OTHERS 693

homeobox gene expression: SUNDIN AND OTHERS 47

sialoconjugates and tail bud development: GRIFFITH AND WILEY 479

somatic and germline chimeras: PETITTE AND OTHERS 185

**limb bud**

role of gap junctions: ALLEN AND OTHERS 623

**-quail chimeras**

cerebellum development in chick: HALLONET AND OTHERS 19

**Chimera****fetal**

fate of cells: FUNDELE AND OTHERS 203

**quail-chick**

cerebellum development in chick: HALLONET AND OTHERS 19

head morphogenesis: COULY AND LE DOUARIN 543

somatic and germline chimeras in chick: PETITTE AND OTHERS 185

**cib-1**early determination in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107**Ciona**

cell fate specification: DAVIDSON 365

**Cleavage****invariant**

cell fate specification: DAVIDSON 365

**variable**

cell fate specification: DAVIDSON 365

**Clonal analysis**

cell movements during epiboly in zebrafish: WARGA AND KIMMEL 569

fate map in zebrafish: KIMMEL AND OTHERS 581

**CNS**

expression of Hox 3.1 protein: AWGULEWITSCH AND JACOBS 411

neural expression of *Xenopus* Xhox3: RUIZ i ALTABA 595**Collagen****mutant gene**

transcription in mouse: SCHWARZ AND OTHERS 717

**Commitment**MyoD expression in *Xenopus* embryo: HARVEY 669**Conditional specification**

diverse modes of cell fate specification: DAVIDSON 365

**Contact****guidance**

topographical control: CLARK AND OTHERS 635

**Coregulation**expression of *Egr-1* and *c-fos*: McMAHON AND OTHERS 281**Cortical cytoskeleton**

maternal mRNA in silkworm eggs: KASTERN AND OTHERS 497



- Cranial ganglion**  
expression of NGF-R mRNA in chick embryo: HALLBÖÖK AND OTHERS 693
- Creatine kinase isozyme**  
expression in *Xenopus*: ROBERT AND OTHERS 507
- Cyclin**  
calcium and cell cycle control: WHITAKER AND PATEL 525
- Cytochalasin**  
partitioning of developmental instructions in *C. elegans*: HILL AND STROME 159
- Cytokeratin**  
desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313  
gene expression in chick embryo: CHARLEBOIS AND OTHERS 33
- Cytokinin**  
control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191
- Cytoplasmic localisation**  
cell fate specification: DAVIDSON 365
- Cytoskeleton**  
and mRNA in silkworm eggs: KASTERN AND OTHERS 497
- Degradation**  
mRNA in *Drosophila virilis*: SWIDA AND OTHERS 269
- Desmosome**  
in kidney tubule morphogenesis: GARROD AND FLEMING 313
- Determination**  
axis  
cell fate specification: DAVIDSON 365  
in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107  
in isolated sea urchin blastomeres: LIVINGSTON AND WILT 403  
secondary muscle lineages in ascidian embryo: NISHIDA 559
- Developmental clock**  
early determination in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107
- Differential transcription**  
*Drosophila* intermoult puff genes: KRESS AND OTHERS 261
- Differentiation**  
marker  
carbohydrate antigen FC10.2 in chick embryogenesis: LOVELESS AND OTHERS 97
- Dil**  
development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515  
neural crest cell migration pathways in mouse: SERBEDZJA AND OTHERS 605
- Disc**  
eye-antennal  
integrins during *Drosophila* development: ZUSMAN AND OTHERS 391
- Dorsal lip**  
induction of *Xenopus* heart mesoderm: SATER AND JACOBSON 461
- Drosophila**  
cell fate specification: DAVIDSON 365  
integrins during: ZUSMAN AND OTHERS 391
- Drosophila melanogaster**  
embryo  
expression of *Abdominal-B* homeoproteins: DELORENZI AND BIENZ 323  
germ line  
expression of *gonadal*: SCHULZ AND OTHERS 613  
homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47  
spermatogenesis  
effect of *asp*: CASAL AND OTHERS 251
- Drosophila virilis**  
glue protein genes: SWIDA AND OTHERS 269  
intermoult puff genes: KRESS AND OTHERS 261
- Ecdysone**  
*Drosophila* glue protein genes: SWIDA AND OTHERS 269  
*Drosophila* intermoult puff genes: KRESS AND OTHERS 261
- Ectomere**  
head morphogenesis in quail-chick chimera: COULY AND LE DOUARIN 543
- EGF (See epidermal growth factor)**
- Egg**  
mouse  
potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337  
sperm receptor in mammals: WASSARMAN 1
- Endocrinology**  
peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59
- Epiboly**  
cell movements in zebrafish: WARGA AND KIMMEL 569  
fate map in zebrafish: KIMMEL AND OTHERS 581
- Epidermal growth factor**  
effect on eyelid opening in mouse: KAPALANGA AND BLECHER 349
- Epithelial cell**  
topographical control of cell behaviour: CLARK AND OTHERS 635
- Epithelial-mesenchymal interaction**  
TGF beta in murine morphogenesis: AKHURST AND OTHERS 645
- Epithelial morphogenesis**  
desmosomes in kidney tubules: GARROD AND FLEMING 313
- Erg-1**  
expression in mouse fetal development: McMAHON AND OTHERS 281
- Exocytosis**  
sperm receptor in mammals: WASSARMAN 1
- Exogastrula**  
neural expression of *Xenopus* Xhox3: RUIZ I ALTABA 595
- Expression**  
*c-fos*  
in mouse fetal development: McMAHON AND OTHERS 281  
*Egr-1*  
in mouse fetal development: McMAHON AND OTHERS 281  
gene  
cell fate specification: DAVIDSON 365  
hox-3 in human extraembryonic tissues: OUDEJANS AND OTHERS 471  
of *Abdominal-B* homeoproteins: DELORENZI AND BIENZ 323  
sperm receptor in mammals: WASSARMAN 1  
myosin  
in human masseter: SOUSSI-YANICOSTAS AND OTHERS 239  
N-CAM4n goldfish retinotectal pathway: BASTMEYER AND OTHERS 299  
of cytokeratin gene in chick: CHARLEBOIS AND OTHERS 33  
of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613  
of Hox 3.1 protein: AWGULEWITSCH AND JACOBS 411  
of *Xenopus* Xhox3: RUIZ I ALTABA 595  
zygotic  
of creatine kinase isozymes: ROBERT AND OTHERS 507

**Extracellular matrix**

in regenerating axolotl limbs: ONDA AND OTHERS 657

**Eye**

-antennal disc

integrins during *Drosophila* development: ZUSMAN AND OTHERS 391**Eyelid**

opening

EGF-opposing effects of *Tabby*: KAPALANGA AND BLECHER 349**Fertilization**

sperm receptor in mammals: WASSARMAN 1

**Fetal chimera**

fate of cells: FUNDELE AND OTHERS 203

**Fibronectin**gastrulation and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229**Gamete**

adhesion

sperm receptor in mammals: WASSARMAN 1

**Gap**

junction

patterning in chick limb bud: ALLEN AND OTHERS 623

**Gastrula**

zebrafish

cell movements during epiboly: WARGA AND KIMMEL 569

fate map: KIMMEL AND OTHERS 581

**Gastrulation**and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229

homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47

mouse

Hox1.1 promoter: PUSCHEL AND OTHERS 435

**Gene** $\alpha 1(I)$  collagen

transcription in mouse: SCHWARZ AND OTHERS 717

*cib-1*early determination in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107EGF-opposing effects of *Tabby*: KAPALANGA AND BLECHER 349

expression

cell fate specification: DAVIDSON 365

Hox-3 in human extraembryonic tissues: OUDEJANS AND OTHERS 471

in mouse and chick: SUNDIN AND OTHERS 47

of *Abdominal-B* homeoproteins in *Drosophila*:

DELORENZI AND BIENZ 323

of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613

sperm receptor in mammals: WASSARMAN 1

glue protein

*Drosophila* intermoult puff genes: KRESS AND OTHERS 261in *Drosophila virilis*: SWIDA AND OTHERS 269*lethal(1)myospheroid*integrins during *Drosophila* development: ZUSMAN AND OTHERS 391**MyoD**expression in *Xenopus* embryo: HARVEY 669

regulation

cell fate specification: DAVIDSON 365

tyrosinase

melanization in albino mouse: TANAKA AND OTHERS 223

**Xhox3**neural expression in *Xenopus*: RUIZ I ALTABA 595**Genetics**early determination in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107**Genomic imprinting**

fate of cells in fetal chimeras: FUNDELE AND OTHERS 203

**Germ**

cell

carbohydrate antigen FC10.2 patterning in chick:

LOVELESS AND OTHERS 97

mouse; migration in culture: GODIN AND OTHERS 357

line

expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613

somatic and germline chimeras in chick: PETITTE AND OTHERS 185

**Ghox-lab**

homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47

**Glue protein**

gene

*Drosophila* intermoult puff genes: KRESS AND OTHERS 261in *Drosophila virilis*: SWIDA AND OTHERS 269**Goldfish**

retinotectal pathway

N-CAM distribution: BASTMEYER AND OTHERS 299

**gonadal**expression in *Drosophila*: SCHULZ AND OTHERS 613**Grooved substratum**

topographical control of cell behaviour: CLARK AND OTHERS 635

**Growth**

factor

IGF I in early mouse embryogenesis: SPAVENTI AND OTHERS 491

nerve; expression of mRNA in chick embryo: HALLBÖÖK AND OTHERS 693

**Guidance**

axonal

in brain of embryonic zebrafish: WILSON AND OTHERS 121

contact

topographical control: CLARK AND OTHERS 635

**Guinea pig**

liver

antioxidant enzymes: RICKETT AND KELLY 331

lung

antioxidant enzymes: RICKETT AND KELLY 331

**Gut**

peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Halocynthia roretzi**

embryo

secondary muscle lineages: NISHIDA 559

**Head**

morphogenesis in quail-chick chimera: COULY AND LE DOUARIN 543

**Heart***Xenopus*

induction of mesoderm: SATER AND JACOBSON 461



**Homeobox**

- gene
  - expression in mouse and chick: SUNDIN AND OTHERS 47
- Hox1.1 promoter in transgenic mice: PUSCHEL AND OTHERS 435
- Xhox3
  - neural expression in *Xenopus*: RUIZ i ALTABA 595

**Homeodomain**

- protein
  - expression of Hox 3.1: AWGULEWITSCH AND JACOBS 411

**Homeoprotein**

- expression of *Abdominal-B* homeoproteins: DELORENZI AND BIENZ 323

**Homing**

- retinal guidance to transposed tecta in *Xenopus*: TAYLOR 147

**Hox1.1**

- promoter in transgenic mice: PUSCHEL AND OTHERS 435

**Hox 1.6**

- homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47

**Hox-3**

- expression
  - in human extraembryonic tissues: OUDEJANS AND OTHERS 471

**Hox 3.1**

- protein
  - expression in CNS: AWGULEWITSCH AND JACOBS 411

**Human**

- embryo
  - desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313
  - Hox-3 expression in extraembryonic tissues: OUDEJANS AND OTHERS 471
- muscle
  - masseter myosin expression: SOUSSI-YANICOSTAS AND OTHERS 239

***Hyalophora cecropia***

- egg
  - maternal mRNA: KASTERN AND OTHERS 497

**Hybridization**

- in situ*
  - expression of NGF-R mRNA in chick embryo: HALLBÖÖK AND OTHERS 693
  - Hox-3 expression in human extraembryonic tissues: OUDEJANS AND OTHERS 471
  - TGF beta in murine morphogenesis: AKHURST AND OTHERS 645
  - transcripts in mouse embryo: RUBERTE AND OTHERS 213

**IBA**

- control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191

**IGF I**

- and insulin in early mouse embryogenesis: SPAVENTI AND OTHERS 491

**Immunocytochemistry**

- desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313
- development of spinal interneurons in chick: YAGINUMA AND OTHERS 705

**Immunohistochemistry**

- expression of Hox 3.1 protein: AWGULEWITSCH AND JACOBS 411

**Incisor**

- eruption
  - EGF-opposing effects of *Tabby*: KAPALANGA AND BLECHER 349

**Induction**

- mesoderm
  - and gastrulation in *Xenopus*: SMITH AND OTHERS 229
  - MyoD expression in *Xenopus* embryo: HARVEY 669
  - XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173
- of spina bifida by retinoic acid: ALLES AND SULIK 73
- Xenopus*
  - heart mesoderm: SATER AND JACOBSON 461

**Insect**

- embryo
  - neurogenesis in locust: SHEPHERD AND BATE 83
- neurobiology
  - peptidergic modulation of embryonic gut: BROADIE AND OTHERS 59
- oogenesis
  - maternal mRNA in silkworm eggs: KASTERN AND OTHERS 497

**Insertional mutagenesis**

- transcription of mutant collagen gene: SCHWARZ AND OTHERS 717

***In situ***

- hybridization
  - expression of NGF-R mRNA in chick embryo: HALLBÖÖK AND OTHERS 693
  - homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47
  - Hox-3 expression in human extraembryonic tissues: OUDEJANS AND OTHERS 471
  - RAR- $\gamma$  transcripts in mouse embryo: RUBERTE AND OTHERS 213
  - TGF beta in murine morphogenesis: AKHURST AND OTHERS 645

**Insulin**

- and IGF I in early mouse embryogenesis: SPAVENTI AND OTHERS 491

**Integrin**

- during *Drosophila* development: ZUSMAN AND OTHERS 391
- gastrulation and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229

**Interaction**

- epithelial-mesenchymal
  - TGF beta in murine morphogenesis: AKHURST AND OTHERS 645

**Intercellular junction**

- desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313

**Intermoult puff**

- genes in *Drosophila*: KRESS AND OTHERS 261

**Invariant cleavage**

- cell fate specification: DAVIDSON 365

**Invertebrate**

- neurodevelopment
  - peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Involution**

- cell movements during epiboly in zebrafish: WARGA AND KIMMEL 569
- fate map in zebrafish: KIMMEL AND OTHERS 581

**Isozyme**

- myosin
  - expression in human masseter: SOUSSI-YANICOSTAS AND OTHERS 239

**J1/tenascin**

- in murine morphogenesis: AKHURST AND OTHERS 645

**Junction**

- gap
  - patterning in chick limb bud: ALLEN AND OTHERS 623
- intercellular
  - desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313

**Kidney**

- desmosomes in tubule morphogenesis: GARROD AND FLEMING 313

**Kinetin**

- control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191

**labial**

- homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47

**lacZ**

- Hox1.1 promoter in transgenic mice: PUSCHEL AND OTHERS 435

**lethal(1)mysospheroid**

- integrins during *Drosophila* development: ZUSMAN AND OTHERS 391

**Limb**

- bud
  - role of gap junctions in patterning: ALLEN AND OTHERS 623
- regeneration
  - an extracellular matrix molecule: ONDA AND OTHERS 657

**Lithium chloride**

- cell fate in isolated sea urchin blastomeres: LIVINGSTON AND WILT 403

**Liver**

- guinea pig
  - antioxidant enzymes: RICKETT AND KELLY 331

**Localisation**

- of Vg1 mRNA: YISRAELI AND OTHERS 289

**lpg-1**

- transcription in *Drosophila virilis*: SWIDA AND OTHERS 269

**Lung**

- guinea pig
  - antioxidant enzymes: RICKETT AND KELLY 331

**Lytechinus pictus**

- embryo
  - cell fate determination: LIVINGSTON AND WILT 403

**Mammal**

- embryo
  - calcium and cell cycle control: WHITAKER AND PATEL 525
- oogenesis
  - sperm receptor in mammals: WASSARMAN 1

**Manduca sexta**

- peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Masseter**

- myosin expression in human: SOUSSI-YANICOSTAS AND OTHERS 239

**Maternally derived isoform**

- expression of creatine kinase isozymes: ROBERT AND OTHERS 507

**Maternal mRNA**

- in silkworm eggs: KASTERN AND OTHERS 497
- MyoD expression in *Xenopus* embryo: HARVEY 669

**Maternal role**

- cell fate specification: DAVIDSON 365

**MDCK cell**

- topographical control of cell behaviour: CLARK AND OTHERS 635

**Meiosis**

- effect of *asp* on *Drosophila* spermatogenesis: CASAL AND OTHERS 251

**Melanization**

- in transgenic albino mouse: TANAKA AND OTHERS 223

**Melanocyte**

- somatic and germline chimeras in chick: PETITTE AND OTHERS 185

**Mesoderm**

- heart
  - induction in *Xenopus*: SATER AND JACOBSON 461
- induction
  - and gastrulation in *Xenopus*: SMITH AND OTHERS 229
  - MyoD expression in *Xenopus* embryo: HARVEY 669
  - XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173

**Mesoderm-inducing factor**

- gastrulation and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229
- XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173

**Metamorphosis**

- thyroxine-dependent N-CAM expression in *Xenopus*: LEVI AND OTHERS 681

**Microfilament**

- partitioning of developmental instructions in *C. elegans*: HILL AND STROME 159
- Vg1 mRNA localisation in *Xenopus* oocytes: YISRAELI AND OTHERS 289

**Micromanipulation**

- potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337

**Microtubule**

- Vg1 mRNA localisation in *Xenopus* oocytes: YISRAELI AND OTHERS 289

**Migration**

- cell
  - cerebellum development in chick: HALLONET AND OTHERS 19
  - neural crest pathways in mouse: SERBEDZUA AND OTHERS 605
- mouse germ cells in culture: GODIN AND OTHERS 357

**Molar pregnancy**

- Hox-3 expression in human extraembryonic tissues: OUDEJANS AND OTHERS 471

**Monocistronic RNA**

- expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613

**Monoclonal antibody**

- extracellular matrix molecule in regenerating axolotl limbs: ONDA AND OTHERS 657

**Morphogenetic movement**

- during epiboly in zebrafish: WARGA AND KIMMEL 569
- fate map in zebrafish: KIMMEL AND OTHERS 581

**Mosaic**

- integrins during *Drosophila* development: ZUSMAN AND OTHERS 391

**Mouse**

- egg
  - potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337
  - sperm receptor in mammals: WASSARMAN 1
- embryo
  - cell fate specification: DAVIDSON 365
  - desmosomes in kidney tubule morphogenesis: GARROD AND FLEMING 313
  - development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515
  - expression of *Egr-1* and *c-fos*: McMAHON AND OTHERS 281
  - homeobox gene expression: SUNDIN AND OTHERS 47
  - insulin and IGF I: SPAVENTI AND OTHERS 491
  - melanization in albino: TANAKA AND OTHERS 223
  - neural crest cell migration pathways: SERBEDZUA AND OTHERS 605
  - RAR- $\gamma$  transcripts: RUBERTE AND OTHERS 213
  - spina bifida induction by retinoic acid: ALLES AND SULIK 73
  - TGF beta in morphogenesis: AKHURST AND OTHERS 645
  - transcription of mutant collagen gene: SCHWARZ AND OTHERS 717
- eyelid opening
  - EGF-opposing effects of *Tabby*: KAPALANGA AND BLECHER 349
- germ cell
  - migration in culture: GODIN AND OTHERS 357
- incisor eruption
  - EGF-opposing effects of *Tabby*: KAPALANGA AND BLECHER 349
- oocyte
  - potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337

**Muscle**

- differentiation
  - secondary muscle lineages in ascidian embryo: NISHIDA 559
- human
  - masseter myosin expression: SOUSSI-YANICOSTAS AND OTHERS 239
- zebrafish
  - skeletal myofibril structure: FELSENFELD AND OTHERS 443

**Mutation**

- affecting zebrafish skeletal muscle myofibril structure: FELSENFELD AND OTHERS 443

**MyoD**

- gene
  - expression in *Xenopus* embryo: HARVEY 669

**Myofibril**

- structure in zebrafish skeletal muscle: FELSENFELD AND OTHERS 443

**Myosin**

- expression
  - in human masseter: SOUSSI-YANICOSTAS AND OTHERS 239

**N-CAM**

- in goldfish retinotectal pathway: BASTMEYER AND OTHERS 299

**Nerve**

- growth factor
  - expression of mRNA in chick embryo: HALLBÖÖK AND OTHERS 693

**Neural cell adhesion molecule**

- in goldfish retinotectal pathway: BASTMEYER AND OTHERS 299

**Neural crest**

- avian embryo
  - distribution of vinculin and talin: DUBAND AND THIERY 421
- cell migration pathways in mouse: SERBEDZUA AND OTHERS 605
- expression of NGF-R mRNA in chick embryo: HALLBÖÖK AND OTHERS 693

**Neural induction**

- expression of *Xenopus* Xho3: RUIZ I ALTABA 595

**Neuraxis**

- secondary
  - sialoconjugates and tail bud development: GRIFFITH AND WILEY 479

**Neurobiology**

- peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Neuroblast**

- neurogenesis in locust: SHEPHERD AND BATE 83

**Neurogenesis**

- in locust: SHEPHERD AND BATE 83

**Neurohormone**

- peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Neuromere**

- head morphogenesis in quail-chick chimera: COULY AND LE DOUARIN 543

**Neuronal differentiation**

- in brain of embryonic zebrafish: WILSON AND OTHERS 121

**Neurone**

- topographical control of cell behaviour: CLARK AND OTHERS 635

**Neuropeptide**

- peptidergic modulation of insect embryonic gut: BROADIE AND OTHERS 59

**Newt**

- limb regeneration
  - extracellular matrix molecule: ONDA AND OTHERS 657

**Nicotiana tabacum**

- morphogenesis
  - control in thin cell-layer explants: MOHNEN AND OTHERS 191

**Nuclear transfer**

- potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337

**Odontoblast**

- transcription of mutant collagen gene: SCHWARZ AND OTHERS 717

**Oligosaccharin**

- control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191

**Ontogeny**

- development of spinal interneurons in chick: YAGINUMA AND OTHERS 705

**Oocyte**

- mouse
  - potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337

- Xenopus laevis*  
Vg1 mRNA localisation: YISRAELI AND OTHERS 289
- Oogenesis**  
insect  
maternal mRNA in silkworm eggs: KASTERN AND OTHERS 497  
mammalian  
sperm receptor in mammals: WASSARMAN 1
- Optic axons**  
development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515
- Optic chiasm**  
development of retinal ganglion cells in mouse: COLELLO AND GUILLERY 515
- Organogenesis**  
control in thin cell-layer explants: MOHNEN AND OTHERS 191
- Osteoblast**  
transcription of mutant collagen gene: SCHWARZ AND OTHERS 717
- Ovarian tumor**  
potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337
- Parthenogenesis**  
fate of cells in fetal chimeras: FUNDELE AND OTHERS 203
- Partitioning**  
of developmental instructions in *C. elegans*: HILL AND STROME 159
- Pathfinding**  
by axons in brain of embryonic zebrafish: WILSON AND OTHERS 121
- Pathogenesis**  
spina bifida induction by retinoic acid: ALLES AND SULIK 73
- Pathway**  
formation  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705
- Pattern**  
anterior-posterior  
neural expression of *Xenopus* Xhox3: RUIZ I ALTABA 595  
axonal growth  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705  
formation  
carbohydrate antigen FC10.2 in chick: LOVELESS AND OTHERS 97  
homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47  
Hox1.1 promoter in transgenic mice: PUSCHEL AND OTHERS 435  
neurogenesis in locust: SHEPHERD AND BATE 83  
limb morphogenesis  
role of gap junctions in chick: ALLEN AND OTHERS 623  
segmental  
head morphogenesis in quail-chick chimera: COULY AND LE DOUARIN 543
- Patterned expression**  
N-CAM in goldfish retinotectal pathway: BASTMEYER AND OTHERS 299
- Peripheral nervous system**  
distribution of vinculin and talin: DUBAND AND THIERY 421
- Photolithography**  
topographical control of cell behaviour: CLARK AND OTHERS 635
- Photoreceptor**  
integrins during *Drosophila* development: ZUSMAN AND OTHERS 391
- Placode**  
expression of NGF-R mRNA in chick embryo: HALLBÖÖK AND OTHERS 693
- Polarity**  
Vg1 mRNA localisation in *Xenopus* oocytes: YISRAELI AND OTHERS 289
- Poly(A)**  
shortening in *Drosophila virilis*: SWIDA AND OTHERS 269
- pp34**  
calcium and cell cycle control: WHITAKER AND PATEL 525
- Preimplantation**  
mouse  
potential of teratocarcinoma cell nuclei: MODLINSKI AND OTHERS 337
- Primitive streak**  
homeobox gene expression in mouse and chick: SUNDIN AND OTHERS 47
- Primordial germ cell**  
carbohydrate antigen FC10.2 patterning in chick: LOVELESS AND OTHERS 97
- Process**  
outgrowth  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705
- Proliferation**  
cell  
fate of cells in fetal chimeras: FUNDELE AND OTHERS 203  
mouse germ cells in culture: GODIN AND OTHERS 357
- Propriospinal**  
development of spinal interneurons in chick: YAGINUMA AND OTHERS 705
- Protein**  
homeodomain  
expression of Hox 3.1 protein: AWGULEWITSCH AND JACOBS 411  
pp34  
calcium and cell cycle control: WHITAKER AND PATEL 525
- Quail**  
-chick chimaeras  
cerebellum development in chick: HALLONET AND OTHERS 19
- RAR- $\gamma$  (see retinoic acid receptor gamma)**
- Receptor**  
nerve growth factor  
expression of mRNA in chick embryo: HALLBÖÖK AND OTHERS 693  
sperm, in mammals: WASSARMAN 1
- Regeneration**  
goldfish  
N-CAM in retinotectal pathway: BASTMEYER AND OTHERS 299  
limb  
an extracellular matrix molecule: ONDA AND OTHERS 657
- Regional specialization**  
cytokeratin gene expression in chick: CHARLEBOIS AND OTHERS 33

**Regulation**

- gene
  - cell fate specification: DAVIDSON 365

**Regulative development**

- cell fate specification: DAVIDSON 365

**Retinoic acid receptor gamma**

- transcripts in mouse embryo: RUBERTE AND OTHERS 213

**Retinoid**

- spina bifida induction by retinoic acid: ALLES AND SULIK 73

**Retinotectal guidance**

- to transposed tecta in *Xenopus*: TAYLOR 147

**Retinotectal pathway**

- N-CAM distribution in goldfish: BASTMEYER AND OTHERS 299

**RNA**

- cytokeratin gene expression in chick: CHARLEBOIS AND OTHERS 33
- maternal messenger
  - in silkworm eggs: KASTERN AND OTHERS 497
  - localisation of Vg1 mRNA in *Xenopus*: YISRAELI AND OTHERS 289
- MyoD expression in *Xenopus* embryo: HARVEY 669
- messenger
  - in *Drosophila virilis*: SWIDA AND OTHERS 269
- monocistronic and bicistronic
  - expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613

**Schistocerca gregaria**

- embryo
  - neurogenesis: SHEPHERD AND BATE 83

**Sea urchin**

- blastomere
  - cell fate determination: LIVINGSTON AND WILT 403
- embryo
  - calcium and cell cycle control: WHITAKER AND PATEL 525

**Secondary neuraxis**

- sialoconjugates and tail bud development: GRIFFITH AND WILEY 479

**Segmental pattern**

- head morphogenesis in quail-chick chimera: COULY AND LE DOUARIN 543

**Selection**

- cell
  - fate of cells in fetal chimeras: FUNDELE AND OTHERS 203

**Sialic acid**

- sialoconjugates and tail bud development: GRIFFITH AND WILEY 479

**Signal**

- transduction
  - sperm receptor in mammals: WASSARMAN 1

**Specialization**

- regional
  - cytokeratin gene expression in chick: CHARLEBOIS AND OTHERS 33

**Sperm**

- mouse
  - receptor in mammals: WASSARMAN 1

**Spermatogenesis**

- Drosophila*
  - effect of *asp*: CASAL AND OTHERS 251

**Spina bifida**

- induction by retinoic acid: ALLES AND SULIK 73

**Spinal cord**

- development of spinal interneurons in chick: YAGINUMA AND OTHERS 705
- mouse
  - expression of Hox 3.1 protein: AWGULEWITSCH AND JACOBS 411

**Squamous epithelium**

- RAR- $\gamma$  transcripts in mouse embryo: RUBERTE AND OTHERS 213

**Stem**

- cell
  - early determination in *C. elegans* embryo: SCHNABEL AND SCHNABEL 107

**Strongylocentrotus purpuratus**

- cell fate specification: DAVIDSON 365

**Tabby**

- EGF-opposing effects on eyelid opening: KAPALANGA AND BLECHER 349

**Tail bud**

- development and sialoconjugates: GRIFFITH AND WILEY 479

**Talin**

- distribution in avian embryo: DUBAND AND THIERY 421

**TCL (See thin cell layer)****Tenascin**

- in regenerating axolotl limbs: ONDA AND OTHERS 657

**Teratocarcinoma cell**

- potential of nuclei transferred to mouse oocytes:

MODLINSKI AND OTHERS 337

**TGF beta-1**

- in murine morphogenesis: AKHURST AND OTHERS 645

**Thin cell layer**

- control of morphogenesis: MOHNEN AND OTHERS 191

**Thyroxine**

- dependent N-CAM expression in *Xenopus*: LEVI AND OTHERS 681

**Tobacco**

- control of morphogenesis in thin cell-layer explants: MOHNEN AND OTHERS 191

**Transcription**

- Drosophila* intermoult puff genes: KRESS AND OTHERS 261

of *Egr-1* and *c-fos*: McMAHON AND OTHERS 281

**Transduction**

- signal
  - sperm receptor in mammals: WASSARMAN 1

**Transformation**

- epithelial-mesenchymal
  - TGF beta in murine morphogenesis: AKHURST AND OTHERS 645

**Transgenic mouse**

- melanization in albino: TANAKA AND OTHERS 223

position-specific activity of Hox1.1 promoter: PUSCHEL AND OTHERS 435

**Translational control**

- expression of *gonadal* in *Drosophila*: SCHULZ AND OTHERS 613

**Trophoblast**

- Hox-3 expression in human extraembryonic tissues: OUDEJANS AND OTHERS 471

**Tyrosinase**

- gene
  - melanization in albino mouse: TANAKA AND OTHERS 223

**Variable cleavage**

- cell fate specification: DAVIDSON 365

**Vg1**

localisation in *Xenopus* oocytes: YISRAELI AND OTHERS 289

**Vinculin**

distribution in avian embryo: DUBAND AND THIERY 421

***Xenopus borealis***

expression of creatine kinase isozymes: ROBERT AND OTHERS 507

***Xenopus laevis***

cell fate specification: DAVIDSON 365

## development

expression of creatine kinase isozymes: ROBERT AND OTHERS 507

## embryo

gastrulation and mesoderm induction: SMITH AND OTHERS 229

MyoD gene expression: HARVEY 669

neural expression of *Xhox3*: RUIZ i ALTABA 595

retinal guidance to transposed tecta: TAYLOR 147

XTC-MIF compared with *Xenopus* bFGF: GREEN AND OTHERS 173

## heart

induction of mesoderm: SATER AND JACOBSON 461

## metamorphosis

thyroxine-dependent N-CAM expression: LEVI AND OTHERS 681

## oocyte

Vg1 mRNA localisation: YISRAELI AND OTHERS 289

***Xhox3***

neural expression in *Xenopus*: RUIZ i ALTABA 595

**X-linked gene**

EGF-opposing effects of *Tabby* in mouse: KAPALANGA AND BLECHER 349

**XTC-MIF**

compared with *Xenopus* bFGF: GREEN AND OTHERS 173

gastrulation and mesoderm induction in *Xenopus*: SMITH AND OTHERS 229

**Zebrafish**

axonal guidance in brain: WILSON AND OTHERS 121

## blastula

fate map: KIMMEL AND OTHERS 581

## gastrulation

cell movements during epiboly: WARGA AND KIMMEL 569

skeletal muscle myofibril structure: FELSENFELD AND OTHERS 443

**Zona pellucida**

sperm receptor in mammals: WASSARMAN 1

**Zygotic expression**

of creatine kinase isozymes: ROBERT AND OTHERS 507



